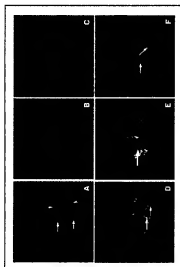


NGEP-L, a prostate specific plasma membrane protein, is a new target for prostate cancer immunotherapy.

Sudipto Das¹, Yoonsoo Hahn¹, Tapan Bera¹, Satoshi Nagata¹, Mark C. Willingham², Byungkook Lee¹ and Ira Pastan¹.

¹Laboratory of Molecular Biology, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD 20892, USA and ² Department of Pathology, Wake Forest University School of Medicine, Winston-Salem, NC-27157, USA.

NGEP is localized in cell-cell contact regions

[illegible]

Expression of NGEF-L causes aggregation of LnCAP cells.

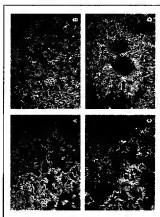


Fig. 4. Expression of NG2P-L in the LNCaP cells causes the aggregation of the cells.

Tissue-specific expression of NGEF

Immunohistochemical analysis of NGEF-L with Mab

Case	Number of cases		Number of cases with secondary infection	Number of cases with secondary infection and positive serology
	Primary	Secondary		
1	1	0	0	0
2	1	0	0	0
3	1	0	0	0
4	1	0	0	0
5	1	0	0	0
6	1	0	0	0
7	1	0	0	0
8	1	0	0	0
9	1	0	0	0
10	1	0	0	0
11	1	0	0	0
12	1	0	0	0
13	1	0	0	0
14	1	0	0	0
15	1	0	0	0
16	1	0	0	0
17	1	0	0	0
18	1	0	0	0
19	1	0	0	0
20	1	0	0	0
21	1	0	0	0
22	1	0	0	0
23	1	0	0	0
24	1	0	0	0
25	1	0	0	0
26	1	0	0	0
27	1	0	0	0
28	1	0	0	0
29	1	0	0	0
30	1	0	0	0
31	1	0	0	0
32	1	0	0	0
33	1	0	0	0
34	1	0	0	0
35	1	0	0	0
36	1	0	0	0
37	1	0	0	0
38	1	0	0	0
39	1	0	0	0
40	1	0	0	0
41	1	0	0	0
42	1	0	0	0
43	1	0	0	0
44	1	0	0	0
45	1	0	0	0
46	1	0	0	0
47	1	0	0	0
48	1	0	0	0
49	1	0	0	0
50	1	0	0	0
51	1	0	0	0
52	1	0	0	0
53	1	0	0	0
54	1	0	0	0
55	1	0	0	0
56	1	0	0	0
57	1	0	0	0
58	1	0	0	0
59	1	0	0	0
60	1	0	0	0
61	1	0	0	0
62	1	0	0	0
63	1	0	0	0
64	1	0	0	0
65	1	0	0	0
66	1	0	0	0
67	1	0	0	0
68	1	0	0	0
69	1	0	0	0
70	1	0	0	0
71	1	0	0	0
72	1	0	0	0
73	1	0	0	0
74	1	0	0	0
75	1	0	0	0
76	1	0	0	0
77	1	0	0	0
78	1	0	0	0
79	1	0	0	0
80	1	0	0	0
81	1	0	0	0
82	1	0	0	0
83	1	0	0	0
84	1	0	0	0
85	1	0	0	0
86	1	0	0	0
87	1	0	0	0
88	1	0	0	0
89	1	0	0	0
90	1	0	0	0
91	1	0	0	0
92	1	0	0	0
93	1	0	0	0

Copyright © 2004 by John Wiley & Sons, Inc.

Abstract

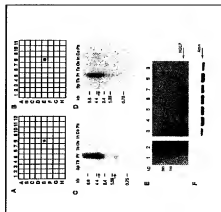
[illegible]

Fig. 1. Tissue-specific expression of NG2P mRNA and protein. Northern blots and Western blots of total RNA and protein from 12 adult tissues of various origins carrying various levels of NG2P. The expression of NG2P in various tissues was determined by Northern blot analysis. The expression of NG2P in various tissues was determined by Western blot analysis. The expression of NG2P in various tissues was determined by Northern blot analysis. The expression of NG2P in various tissues was determined by Western blot analysis.

9



Fig. 3. Location of NCEP-1 in prostate.

Fig. 5. NGEP-L siRNA mediated gene silencing in LNCaP-NGEP cells reverses the

Western blot analysis of the NG2-L1 hybrid preparation was done after days 2, 4, and 6 of transfection with RNAi constructs. A control sample (NC-2-L1) was used as a positive control for transfection efficiency and the presence of NG2. The cells were transfected with increasing concentrations of siRNA. The presence of NG2 was detected by immunoblotting with anti-NG2 antibody in each lane. The molecular weight of NG2 is 140 kDa. The lanes are labeled as follows: NC-2-L1 (control), NC-2-L1 + NG2 (control), NC-2-L1 + NG2 (day 2), NC-2-L1 + NG2 (day 4), and NC-2-L1 + NG2 (day 6). Arrows, change of gene expression in the NC-2-L1 + NG2 and the NC-2-L1 + NG2 + siRNA cells transfected with siRNA. The findings are presented in the NC-2-L1 + NG2 + siRNA transfected cells with siRNA.

References

From TK, Ong S, Manile H, Beers R, Wolfgang CD, Körner V, Hahn Y, Lee Q, Pustian J, Pius M, Acad Sci U S A. 2017;114(10):2658-64.